

WHAT IS CLAIMED IS:

1. A switched capacitor filter having an anti-aliasing function, comprising:

integration circuits of multiple stages, each having an amplifier and a switched capacitor,

the integration circuit of at least a first stage having a resistor, and

the amplifier in at least one of the integration circuits including a bipolar transistor.

2. A switched capacitor filter having an anti-aliasing function, comprising:

integration circuits of multiple stages, each having an amplifier and a switched capacitor,

the integration circuit of at least a first stage having a resistor, and

the bipolar transistor is provided in an input stage of the amplifier in at least one of the integration circuits having the resistor.

3. A switched capacitor filter having an anti-aliasing function, comprising:

integration circuits of multiple-stages, each having an amplifier and a switched capacitor,

an integration circuit of at least a first stage having

a resistor,

the integration circuits each having a distributed gain so as to maintain a filtering function in each of the multiple-stages of integration circuits, and

an input stage of an amplifier which shows strong  $1/f$  noise reduction effect including a bipolar transistor.

4. The switched capacitor as set forth in Claim 2, wherein:

the amplifier whose input stage include the bipolar transistor has an input impedance that is greater than a resistance of a resistor connected to the input stage of the amplifier.

5. The switched capacitor as set forth in Claim 3, wherein:

the amplifier whose input stage include the bipolar transistor has an input impedance that is greater than a resistance of a resistor connected to the input stage of the amplifier.

6. The switched capacitor filter as set forth in Claim 1, wherein:

the switched capacitor filter is provided on a single substrate.

7. The switched capacitor filter as set forth in Claim 2, wherein:

the switched capacitor filter is provided on a single substrate.

8. The switched capacitor filter as set forth in Claim 3, wherein:

the switched capacitor filter is provided on a single substrate.

9. A digital wireless receiver, wherein:

the switched capacitor filter of Claim 1 is used for (i) intermediate frequency band section of a digital wireless receiver which uses a low to intermediate frequency, or (ii) an analog baseband section of a digital wireless communication receiver which uses no intermediate frequency.

10. A digital wireless receiver, wherein:

the switched capacitor filter of Claim 2 is used for (i) intermediate frequency band section of a digital wireless receiver which uses a low to intermediate frequency, or (ii) an analog baseband section of a digital wireless communication receiver which uses no intermediate

frequency.

11. A digital wireless receiver, wherein:

the switched capacitor filter of Claim 3 is used for (i) intermediate frequency band section of a digital wireless receiver which uses a low to intermediate frequency, or (ii) an analog baseband section of a digital wireless communication receiver which uses no intermediate frequency.